

Lab 5 - Caller ID

CCNA Voice Lab 5

Caller ID

Lab Objective:

The objective of this lab exercise is for you to learn and understand how to implement Caller ID services on FXS ports

Topic Description:

Caller ID (CID) describes the delivery of a calling name or number, or both

Lab Difficulty:

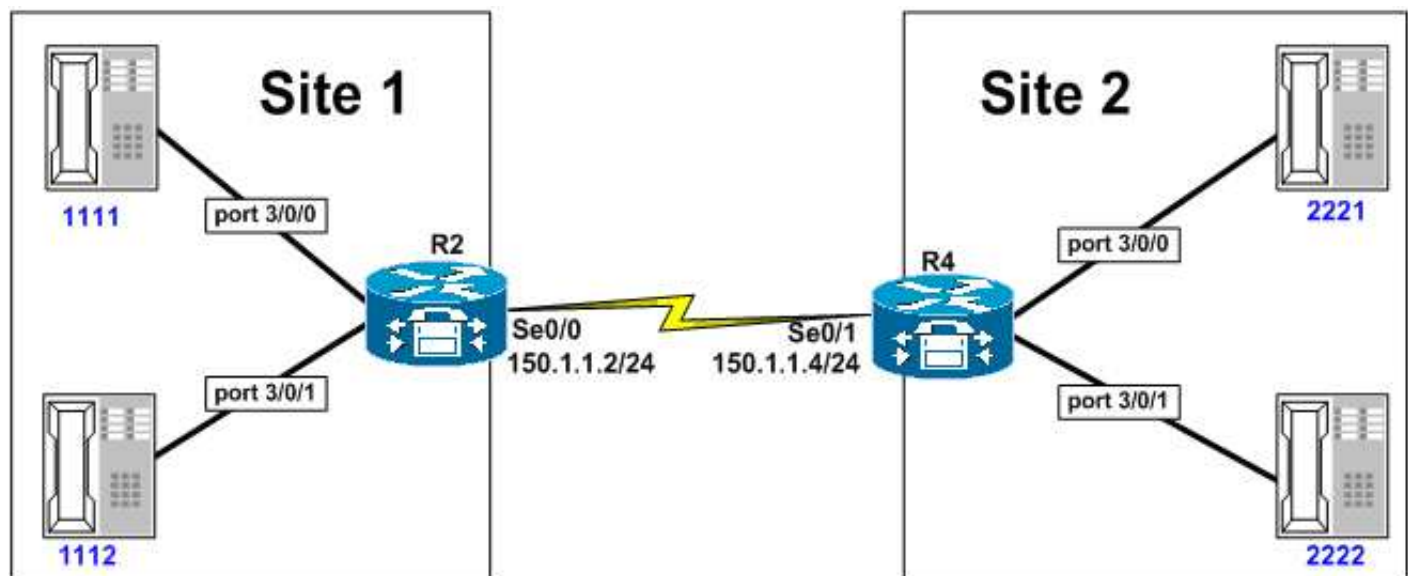
This lab has a difficulty rating of 5/10

Readiness Assessment:

When ready for your exam, you should be able to complete this lab in no more than 10 minutes

Lab Topology:

Please use the following topology to complete this lab exercise:



Lab 5 Configuration Tasks

Task 1:

Configure the hostnames and IP addresses on R2 and R4 as illustrated in the diagram. Configure R4 to provide clocking to R2. Configure the clock rate on R4 as 800Kbps

Task 2:

Configure POTS dial peers on R2 for the extensions specified in the diagram. You are permitted to use any dial peer numbers that you want to use

Task 3:

Configure POTS dial peers on R4 for the extensions specified in the diagram. You are permitted to use any dial peer numbers that you want to use

Task 4:

Configure VoIP dial peers on R2 for the extensions on R4. You are permitted to use any dial peer numbers that you want to use

Task 5:

Configure VoIP dial peers on R4 for the extensions on R2. You are permitted to use any dial peer numbers that you want to use

Task 6:

Configure CLID on R2 as illustrated in the following table:

Extension	CLID Name
1111	Marcus Aurelius
1112	Commodus

Task 7:

Configure CLID on R4 as illustrated in the following table:

Extension	CLID Name
2221	Maximus
2222	Proximo

Task 8:

Verify your configuration

Lab 5 Configuration and Verification

Task 1:

```
R2(config)#hostname R2
R2(config)#interface Serial0/0
R2(config-if)#description .Connected To R4 Serial 0/1.
R2(config-if)#ip address 150.1.1.2 255.255.255.0
```

```
R4(config)#hostname R4
R4(config)#interface Serial0/1
R4(config-if)#description .Connected To R2 Serial 0/0
R4(config-if)#ip address 150.1.1.4 255.255.255.0
R4(config-if)#clock rate 800000
```

Verify connectivity by performing a simple ping between the two routers

```
R2#ping 150.1.1.4
```

```
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 150.1.1.4, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 4/4/4 ms
```

```
R4#ping 150.1.1.2
```

```
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 150.1.1.2, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 4/4/8 ms
```

Task 2:

```
R2(config)#dial-peer voice 1 pots
R2(config-dial-peer)#destination-pattern 1111
```

```
R2(config-dial-peer)#port 3/0/0
R2(config-dial-peer)#exit
R2(config)#dial-peer voice 2 pots
R2(config-dial-peer)#destination-pattern 1112
R2(config-dial-peer)#port 3/0/1
R2(config-dial-peer)#exit
```

Task 3:

```
R4(config)#dial-peer voice 1 pots
R4(config-dial-peer)#destination-pattern 2221
R4(config-dial-peer)#port 3/0/0
R4(config-dial-peer)#exit
R4(config)#dial-peer voice 2 pots
R4(config-dial-peer)#destination-pattern 2222
R4(config-dial-peer)#port 3/0/1
R4(config-dial-peer)#exit
```

Task 4:

```
R2(config)#dial-peer voice 3 voip
R2(config-dial-peer)#destination-pattern 222.
R2(config-dial-peer)#session target ipv4:150.1.1.4
R2(config-dial-peer)#exit
```

Task 5:

```
R4(config)#dial-peer voice 3 voip
R4(config-dial-peer)#destination-pattern 111.
R4(config-dial-peer)#session target ipv4:150.1.1.2
R4(config-dial-peer)#exit
```

Task 6:

```
R2(config)#voice-port 3/0/0
R2(config-voiceport)#station-id name Marcus Aurelius
R2(config-voiceport)#exit
R2(config)#voice-port 3/0/1
R2(config-voiceport)#station-id name Commodus
R2(config-voiceport)#exit
```

Task 7:

```
R4(config)#voice-port 3/0/0
R4(config-voiceport)#station-id name Maximus
R4(config-voiceport)#exit
R4(config)#voice-port 3/0/1
R4(config-voiceport)#station-id name Proximo
R4(config-voiceport)#exit
```

Task 8:

To verify this configuration, you will need physical access to the telephone, which must have a display for CLID information. Alternatively, if you had an IP phone connected to the gateways, you would see the following for a call from extension 2221 to extension 1111, for example:



Final Relevant Configuration R2:

R2#**show running-config**

Building configuration...

Current configuration : 1502 bytes

!

version 12.4

service timestamps debug datetime msec

service timestamps log datetime msec

no service password-encryption

!

hostname R2

!

!

```

!
!
interface Serial0/0
  description .Connected To R4 Serial 0/1.
  ip address 150.1.1.2 255.255.255.0
!
!
!
voice-port 3/0/0
  station-id name Marcus Aurelius
!
voice-port 3/0/1
  station-id name Commodus
!
voice-port 3/1/0
!
voice-port 3/1/1
!
!
!
!
dial-peer voice 1 pots
  destination-pattern 1111
  port 3/0/0
!
dial-peer voice 2 pots
  destination-pattern 1112
  port 3/0/1
!
dial-peer voice 3 voip
  destination-pattern 222.
  session target ipv4:150.1.1.4

```

Final Relevant Configuration R4:

R4#**show running-config**

Building configuration...

Current configuration : 1525 bytes

```

!
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname R4
!
!
!
!
interface Serial0/1
  description .Connected To R2 Serial 0/0
  ip address 150.1.1.4 255.255.255.0
  clock rate 800000
!
!
!
!
voice-port 3/0/0
  station-id name Maximus
!
voice-port 3/0/1
  station-id name Proximo
!
voice-port 3/1/0
!

```

```
:
voice-port 3/1/1
!
!
!
dial-peer voice 1 pots
destination-pattern 2221
port 3/0/0
!
dial-peer voice 2 pots
destination-pattern 2222
port 3/0/1
!
dial-peer voice 3 voip
destination-pattern 111.
session target ipv4:150.1.1.2
```



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